

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:

***** HHHHHHHH SSSSSSSS?

Status: Signing onto Dialog

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Password incorrect

Status: Incorrect Account Password.

Status: Incorrect Account Password.

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:

***** HHHHHHHH SSSSSSSS?

Status: Signing onto Dialog

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Password incorrect

Status: Incorrect Account Password.

Status: Incorrect Account Password.

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:

***** HHHHHHHH SSSSSSSS?

Status: Signing onto Dialog

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Welcome to DIALOG

Status: Connected

Dialog level 02.05.06D

Last logoff: 04jun02 16:15:16

Logon file001 05jun02 14:02:11

*** ANNOUNCEMENT ***

--Important Notice for Japanese KMKNET Users
KMKNET will be terminated on 5/31/02. Please
switch to DLGNET. Please refer to the G-Search
home page at <http://www.g-search.or.jp>
for more information.

--SourceOne patents are now delivered to your
email inbox as PDF replacing TIFF delivery.
See HELP SOURCE1 for more information.

--Important news for public and academic
libraries. See HELP LIBRARY for more information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

For information about the access to file 43 please see Help News43.

NEW FILES RELEASED

***AGROProjects (File 235)
***TRADEMARKSCAN-Japan (File 669)

UPDATING RESUMED

***Delphes European Business (File 481)

RELOADED

***CLAIMS/US PATENTS (Files 340, 341, 942)
***Kompass Western Europe (590)
***D&B - Dun's Market Identifiers (516)

REMOVED

***Baton Rouge Advocate (File 382)
***Washington Post (File 146)
***Books in Print (File 470)
***Court Filings (File 793)
***Microcomputer Software Guide Online (File 278)
***Publishers, Distributors & Wholesalers of the U.S. (File 450)
***State Tax Today (File 791)
***Tax Notes Today (File 790)
***Worldwide Tax Daily (File 792)
New document supplier
IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>>Get immediate news with Dialog's First Release
news service. First Release updates major newswire
databases within 15 minutes of transmission over the
wire. First Release provides full Dialog searchability
and full-text features. To search First Release files in
OneSearch simply BEGIN FIRST for coverage from Dialog's
broad spectrum of news wires.

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.
HIGHLIGHT set on as '*'

File 1:ERIC 1966-2002/May 10
(c) format only 2002 The Dialog Corporation

Set	Items	Description
-----	-------	-------------

Cost is in DialUnits

?b 155, 5, 73

05jun02 14:02:22 User259876 Session D354.1

\$0.32 0.093 DialUnits File1

\$0.32 Estimated cost File1

\$0.04 TELNET

\$0.36 Estimated cost this search

\$0.36 Estimated total session cost 0.093 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2002/May W4

***File 155: Daily alerts** now available. This file has been reloaded. Accession numbers have changed.

File 5: Biosis Previews(R) 1969-2002/May W4
(c) 2002 BIOSIS

File 73: EMBASE 1974-2002/May W4
(c) 2002 Elsevier Science B.V.

***File 73: For information about Explode feature please**
see Help News73.

Set	Items	Description
?s	(polynucleotide or RNA or DNA)	(w) (ligand)
	10087	POLYNUCLEOTIDE
	931438	RNA
	1760674	DNA
	232331	LIGAND
S1	718	(POLYNUCLEOTIDE OR RNA OR DNA) (W) (LIGAND)
?s s1	same	(antivirus or antiviral)
>>>	Term "SAME"	in invalid position
?s s1 (s)	(antivirus or antiviral)	
	718	S1
	16001	ANTIVIRUS
	118410	ANTIVIRAL
S2	3	S1 (S) (ANTIVIRUS OR ANTIVIRAL)
?rd		
...	completed	examining records
S3	2	RD (unique items)
?t	s3/3,k/all	

3/3,K/1 (Item 1 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

12508099 BIOSIS NO.: 200000261601

In vitro selection of novel RNA ligands that bind human cytomegalovirus and block viral infection.

AUTHOR: Wang Jun; Jiang Hong; Liu Fenyong(a)
AUTHOR ADDRESS: (a) Program in Infectious Diseases and Immunity, School of Public Health, University of California, 140 Warren Hall, Berkeley, CA, 94720**USA

JOURNAL: RNA (New York) 6 (4):p571-583 April, 2000

MEDIUM: print.

ISSN: 1355-8382

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...*RNA* *ligand*, *antiviral*-drug, pharmacokinetics...

...*RNA* *ligand*, *antiviral*-drug, pharmacokinetics

3/3,K/2 (Item 2 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

02915560 BIOSIS NO.: 000069023677

HUMAN LEUKOCYTE INTERFERON RELATIONSHIP BETWEEN MOLECULAR STRUCTURE AND SPECIES SPECIFICITY

AUTHOR: THANG M N; THANG D C; CHELBI-ALIX M K; ROBERT-GALLIOT B;

COMMOY-CHEVALIER M J; CHANY G

AUTHOR ADDRESS: INST. BIOL. PHYS.-CHIM., 13 RUE PIERRE ET MARIE CURIE, 75005 PARIS, FR.

QP 623.R52

JOURNAL: PROC NATL ACAD U S A 76 (8). 1979. 3717-3721 1979
 FULL JOURNAL NAME: Proceedings of the National Academy of Sciences of the
 United States of America
 CODEN: PNASA
 RECORD TYPE: Abstract
 LANGUAGE: ENGLISH

...ABSTRACT: of subspecies by polynucleotide-agarose affinity
 chromatography; 30-40% of the molecular species have the
 polynucleotide-binding property and 60-70% lack affinity for the
 polynucleotide *ligand*. When analyzed on sodium dodecyl
 sulfate-polyacrylamide gel electrophoresis, the former class of
 interferon has a slower mobility corresponding to the migration of a
 polypeptide...
 ...cells. The polypeptide domain responsible for species specificity may be
 closely related to the polynucleotide binding area. The modified
 interferon molecule, however, still conserves its *antiviral* activity.
 The simplicity and the high capacity of polynucleotide-agarose
 chromatography make this a powerful technique for the purification of
 interferon. The easy separation of...

?ds

Set	Items	Description
S1	718	(POLYNUCLEOTIDE OR RNA OR DNA) (W) (LIGAND)
S2	3	S1 (S) (ANTIVIRUS OR ANTIVIRAL)
S3	2	RD (unique items)
?s s1 and (virus (w) (capsid or envelope))		
	718	S1
	1114156	VIRUS
	29643	CAPSID
	78588	ENVELOPE
	13681	VIRUS(W) (CAPSID OR ENVELOPE)
S4	0	S1 AND (VIRUS (W) (CAPSID OR ENVELOPE))
?s s1 and (gB or gH or gL)		
	718	S1
	7725	GB
	60568	GH
	6341	GL
S5	4	S1 AND (GB OR GH OR GL)

?rd

...completed examining records

S6 2 RD (unique items)
 ?t s6/3,k/all

6/3,K/1 (Item 1 from file: 155)
 DIALOG(R) File 155:MEDLINE(R)

06862842 91170880 PMID: 1706405

**Secretion of insulin-like growth factor-I (IGF-I) and IGF-binding
 proteins from bovine mammary tissue in vitro.**

Campbell P G; Skaar T C; Vega J R; Baumrucker C R
 Department of Dairy and Animal Science, Pennsylvania State University,
 University Park 16802.

Journal of endocrinology (ENGLAND) Feb 1991, 128 (2) p219-28, ISSN
 0022-0795 Journal Code: 0375363

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... animals respectively. Concentrations of IGFBPs in conditioned media
 from explants were similar for both physiological states at 2529 pmol
 125I-labelled IGF-I bound/micrograms *DNA*. *Ligand* /Western blotting
 procedures identified four IGFBPs of 29, 33, 37 and 44 kDa for acini
 cultures and five IGFBPs of 28, 31, 36, 44 and...

... used as the ligand only bovine IGF-II (ED50 of 0.1 pmol) inhibited binding. The addition of prolactin, insulin and cortisol, with or without *GH*, did not affect secretion of either IGF-I or IGFBP. This report describes the ability of normal mammary tissue to synthesize and secrete IGF-I...

6/3,K/2 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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11575841 EMBASE No: 2002147380

**Induced formation of a DNA bulge structure by a molecular wedge ligand -
Postactivated neocarzinostatin chromophore**

Gao X.; Stassinopoulos A.; Ji J.; Kwon Y.; Bare S.; Goldberg I.H.

X. Gao, Department of Chemistry, University of Houston, 4800 Calhoun
Street, Houston, TX 77204-5003 United States

AUTHOR EMAIL: xgao@uh.edu

Biochemistry (BIOCHEMISTRY) (United States) 23 APR 2002, 41/16

(5131-5143)

CODEN: BICHA ISSN: 0006-2960

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 30

...antitumor molecule. A thorough understanding of these results will provide the molecular basis for the binding and DNA chain cleavage properties of NCS-chrom. NCSi-*gb* is one of the postactivated mimics of NCS-chrom which is formed under thiol-free conditions and is able to bind to DNA. This report describes the structure refinement of the NCSi-*gb* -bulge-DNA complex [Stassinopoulos, A., Jie, J., Gao, X., and Goldberg, I. H. (1996) Science 272, 1943-1946] and the NMR characterization of the free bulge-DNA and free NCSi-*gb*. These results reveal that the formation of the complex involves conformational changes in both the DNA and the ligand molecule. Of mechanistic importance for the...

...the presence of bulge-DNA sequences, due to the promotion of the intramolecular radical quenching of the activated NCS-chrom. Interestingly, the binding of NCSi-*gb* promotes the formation of a bulge binding pocket; this was not found in the unbound DNA. NCS-chrom is unique among the enediyne antibiotics in...

...mechanisms of activation to form two different DNA binding and cleaving species. The two corresponding DNA complexes are compared. One, the bulge-DNA binder NCSi-*gb*, involves the major groove, and the second, the duplex binder NCSi-glu which is generated by glutathione-induced activation, involves the minor groove. Since the...

DRUG DESCRIPTORS:

**DNA*; **ligand*; *zinostatin chromophore

?ds

Set	Items	Description
S1	718	(POLYNUCLEOTIDE OR RNA OR DNA) (W) (LIGAND)
S2	3	S1 (S) (ANTIVIRUS OR ANTIVIRAL)
S3	2	RD (unique items)
S4	0	S1 AND (VIRUS (W) (CAPSID OR ENVELOPE))
S5	4	S1 AND (GB OR GH OR GL)
S6	2	RD (unique items)
?s s1 and (viral (w) infection)		
	718	S1
	563287	VIRAL
	1583416	INFECTION
	27890	VIRAL(W)INFECTION
S7	2	S1 AND (VIRAL (W) INFECTION)

?rd

...completed examining records

S8 1 RD (unique items)
?t s8/3,k/all

8/3,K/1 (Item 1 from file: 5)
DIALOG(R) File 5:BIOSIS Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

12508099 BIOSIS NO.: 200000261601

In vitro selection of novel RNA ligands that bind human cytomegalovirus and block *viral* *infection*.

AUTHOR: Wang Jun; Jiang Hong; Liu Fenyong(a)

AUTHOR ADDRESS: (a)Program in Infectious Diseases and Immunity, School of Public Health, University of California, 140 Warren Hall, Berkeley, CA, 94720**USA

JOURNAL: RNA (New York) 6 (4):p571-583 April, 2000

MEDIUM: print.

ISSN: 1355-8382

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

In vitro selection of novel RNA ligands that bind human cytomegalovirus and block *viral* *infection*.

...ABSTRACT: sequences after 16 cycles of selection and amplification. The two ligands (L13 and L19) characterized exhibited high HCMV-binding affinity in vitro and effectively inhibited *viral* *infection* in tissue culture. Their antiviral activity was also specific as they only reacted with two different strains of HCMV but not with the related herpes...

...the feasibility of using these RNA ligands as a research tool to identify viral proteins required for infectivity and as an antiviral agent to block *viral* *infection*.

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...*RNA* *ligand*, antiviral-drug, pharmacokinetics...

...*RNA* *ligand*, antiviral-drug, pharmacokinetics
?ds

Set	Items	Description
S1	718	(POLYNUCLEOTIDE OR RNA OR DNA) (W) (LIGAND)
S2	3	S1 (S) (ANTIVIRUS OR ANTIVIRAL)
S3	2	RD (unique items)
S4	0	S1 AND (VIRUS (W) (CAPSID OR ENVELOPE))
S5	4	S1 AND (GB OR GH OR GL)
S6	2	RD (unique items)
S7	2	S1 AND (VIRAL (W) INFECTION)
S8	1	RD (unique items)
?s s1 and (antiviral or antiviral)		
	718	S1
	118410	ANTIVIRAL
	16001	ANTIVIRUS
S9	10	S1 AND (ANTIVIRAL OR ANTIVIRUS)

?rd

...completed examining records

S10 7 RD (unique items)

?t s10/3,k/all

10/3,K/1 (Item 1 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

09693264 98118468 PMID: 9457241

Modeling *RNA*-*ligand* interactions: the Rev-binding element RNA-aminoglycoside complex.

Leclerc F; Cedergren R
Departement de Biochimie, Universite de Montreal, Quebec, Canada.
Journal of medicinal chemistry (UNITED STATES) Jan 15 1998, 41 (2)
p175-82, ISSN 0022-2623 Journal Code: 9716531
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

**Modeling *RNA*-ligand interactions: the Rev-binding element
RNA-aminoglycoside complex.**

Descriptors: Antibiotics, Aminoglycoside--metabolism--ME; **Antiviral*
Agents--metabolism--ME; *Gene Products, rev--metabolism--ME; *RNA, Viral
--metabolism--ME

Chemical Name: Antibiotics, Aminoglycoside; *Antiviral* Agents; Gene
Products, rev; Ligands; Macromolecular Systems; RNA, Viral

10/3,K/2 (Item 2 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

09323096 97234941 PMID: 9102100

**Conjugates of oligodeoxyribonucleotides with lexitropsins, forming a
DNA-ligand complex with a 1:2 ratio]**

Kon'iugaty oligodezoksiribonukleotidov s leksitropsinami, obrazuiushchie
kompleksy DNK-ligand sostava 1:2.

Siniakov A N; Riabinin V A; Gorbunov Iu A; Lokhov S G; Baklanov M M;
Babkina I N; Sandakhchiev L S

Doklady Akademii nauk / Rossiiskaia akademii nauk (RUSSIA) Jan 1997,
352 (2) p262-4, ISSN 0869-5652 Journal Code: 9301140

Document type: Journal Article

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

**Conjugates of oligodeoxyribonucleotides with lexitropsins, forming a
DNA-ligand complex with a 1:2 ratio]**

Descriptors: *Antiviral* Agents--chemistry--CH; *DNA--chemistry--CH;
*Netropsin--analogs and derivatives--AA

Chemical Name: *Antiviral* Agents; lexitropsin; Netropsin; DNA

10/3,K/3 (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

12508099 BIOSIS NO.: 200000261601

**In vitro selection of novel RNA ligands that bind human cytomegalovirus and
block viral infection.**

AUTHOR: Wang Jun; Jiang Hong; Liu Fenyong(a)

AUTHOR ADDRESS: (a) Program in Infectious Diseases and Immunity, School of
Public Health, University of California, 140 Warren Hall, Berkeley, CA,
94720**USA

JOURNAL: RNA (New York) 6 (4):p571-583 April, 2000

MEDIUM: print.

ISSN: 1355-8382

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: and amplification. The two ligands (L13 and L19) characterized
exhibited high HCMV-binding affinity in vitro and effectively inhibited
viral infection in tissue culture. Their *antiviral* activity was also
specific as they only reacted with two different strains of HCMV but not
with the related herpes simplex virus 1 and human...

...procedure. Our study onstrates the feasibility of u g these RNA ligands as a research tool to identify viral proteins required for infectivity and as an *antiviral* agent to block viral infection.

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...*RNA* *ligand*, *antiviral*-drug, pharmacokinetics...

...*RNA* *ligand*, *antiviral*-drug, pharmacokinetics

10/3,K/4 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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10430336 BIOSIS NO.: 199699051481

Inhibitory *RNA* *ligand* to reserve transcriptase from feline immunodeficiency virus.

AUTHOR: Chen Hang; McBroom Douglas G; Zhu Ya-Qi; Gold Larry; North Thomas W
(a)

AUTHOR ADDRESS: (a)Div. Biol. Sci., Univ. Montana, Missoula, MT 59812**USA

JOURNAL: Biochemistry 35 (21):p6923-6930 1996

ISSN: 0006-2960

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Inhibitory *RNA* *ligand* to reserve transcriptase from feline immunodeficiency virus.

MISCELLANEOUS TERMS: *ANTIVIRAL*;

10/3,K/5 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

02915560 BIOSIS NO.: 000069023677

HUMAN LEUKOCYTE INTERFERON RELATIONSHIP BETWEEN MOLECULAR STRUCTURE AND SPECIES SPECIFICITY

AUTHOR: THANG M N; THANG D C; CHELBI-ALIX M K; ROBERT-GALLIOT B;
COMMOY-CHEVALIER M J; CHANY G

AUTHOR ADDRESS: INST. BIOL. PHYS.-CHIM., 13 RUE PIERRE ET MARIE CURIE,
75005 PARIS,.FR.

JOURNAL: PROC NATL ACAD SCI U S A 76 (8). 1979. 3717-3721. 1979

FULL JOURNAL NAME: Proceedings of the National Academy of Sciences of the United States of America

CODEN: PNASA

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

...ABSTRACT: of subspecies by polynucleotide-agarose affinity chromatography; 30-40% of the molecular species have the polynucleotide-binding property and 60-70% lack affinity for the *polynucleotide* *ligand*. When analyzed on sodium dodecyl sulfate-polyacrylamide gel electrophoresis, the former class of interferon has a slower mobility corresponding to the migration of a polypeptide...

...cells. The polypeptide domain responsible for species specificity may be closely related to the polynucleotide binding area. The modified interferon molecule, however, still conserves its *antiviral* activity. The simplicity and the high capacity of polynucleotide-agarose chromatography make this a powerful technique for the purification of interferon. The easy separation of...

10/3,K/6 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE

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11237064 EMBASE No: 2001251611

Anti-HIV and cytotoxic activities of Ru(II)/Ru(III) polypyridyl complexes containing 2,6-(2prime-benzimidazolyl)-pyridine/chalcone as co-ligand

Mishra L.; Sinha R.; Itokawa H.; Bastow K.F.; Tachibana Y.; Nakanishi Y.; Kilgore N.; Lee K.-H.

L. Mishra, Department of Chemistry, Banaras Hindu University,

Gaithersburg India

AUTHOR EMAIL: khlee@email.unc.edu

Bioorganic and Medicinal Chemistry (BIOORG. MED. CHEM.) (United Kingdom

) 2001, 9/7 (1667-1671)

CODEN: BMECE ISSN: 0968-0896

PUBLISHER ITEM IDENTIFIER: S0968089601000748

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 25

DRUG DESCRIPTORS:

DNA; *ligand*; chalcone; chalcone derivative--pharmacology--pd; chalcone derivative--drug toxicity--to; chalcone derivative--drug development--dv; chalcone derivative--drug comparison--cm; zidovudine--pharmacology--pd; zidovudine--drug...

MEDICAL DESCRIPTORS:

*cytotoxicity; **antiviral* activity; *Human immunodeficiency virus 1; *antineoplastic activity

10/3,K/7 (Item 2 from file: 73)

DIALOG(R) File 73:EMBASE

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05648316 EMBASE No: 1994048156

In vitro evolution of functional nucleic acids: High-affinity RNA ligands of HIV-1 proteins

Tuerk C.; MacDougall-Waugh S.

Biological/Envtl. Sciences Dept., Lappin Hall, Morehead State

University, Morehead, KY 40351 United States

Gene (GENE) (Netherlands) 1993, 137/1 (33-39)

CODEN: GENED ISSN: 0378-1119

DOCUMENT TYPE: Journal; Conference Paper

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

DRUG DESCRIPTORS:

**antivirus* agent--drug development--dv; *ligand; *nucleic acid; *rna; *virus protein

DRUG TERMS (UNCONTROLLED): *rna* *ligand*

?ds

Set	Items	Description
S1	718	(POLYNUCLEOTIDE OR RNA OR DNA) (W) (LIGAND)
S2	3	S1 (S) (ANTIVIRUS OR ANTIVIRAL)
S3	2	RD (unique items)
S4	0	S1 AND (VIRUS (W) (CAPSID OR ENVELOPE))
S5	4	S1 AND (GB OR GH OR GL)
S6	2	RD (unique items)
S7	2	S1 AND (VIRAL (W) INFECTION)
S8	1	RD (unique items)
S9	10	S1 AND (ANTIVIRAL OR ANTIVIRUS)
S10	7	RD (unique items)

?s s1 and (treatment or therapy)

718 S1

3813291 TREATMENT

4408917 THERAPY

S11 74 S1 AND (TREATMENT OR THERAPY)

?s s11 and review

0-11442. G43

74 S11
1243606 REVIEW
S12 6 S11 AND REVIEW
?rd
...completed examining records
S13 4 RD (unique items)
?t s13/3,k/all

13/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08335110 95094782 PMID: 8001543

An evaluation of receptor-mediated gene transfer using synthetic *DNA*-*ligand* complexes.

Perales J C; Ferkol T; Molas M; Hanson R W
Department of Biochemistry, Case Western Reserve University, School of Medicine, Cleveland, Ohio 44106-4935.
European journal of biochemistry / FEBS (GERMANY) Dec 1 1994, 226 (2) p255-66, ISSN 0014-2956 Journal Code: 0107600
Contract/Grant No.: DK-21859; DK; NIDDK
Document type: Journal Article; Review; Review, Tutorial
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

An evaluation of receptor-mediated gene transfer using synthetic *DNA*-*ligand* complexes.

... animals. Genes introduced by this technique have been shown to be expressed in the target tissue for varying periods. However, to be useful for gene *therapy*, it is critical that both the chemical properties and physical interactions of the reagents involved in the design of the DNA delivery vehicle be rigorously characterized. In this *review*, we discuss the critical steps in the preparation of the *DNA*-*ligand* complex and the factors involved in the delivery and regulated expression of a transgene in animal tissues. The feasibility of using this technique for the...

13/3,K/2 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE
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11553308 EMBASE No: 2002125069

Tracing transgene expression in cancer gene *therapy*: A requirement for rational progress in the field

Sangro B.; Qian C.; Ruiz J.; Prieto J.
Dr. B. Sangro, Department of Internal Medicine, University Clinic, University of Navarra, 31080 Pamplona Spain
AUTHOR EMAIL: bsangro@unav.es
Molecular Imaging and Biology (MOL. IMAGING BIOL.) (United States)
2002, 4/1 (27-33)
CODEN: CPIMF ISSN: 1536-1632
PUBLISHER ITEM IDENTIFIER: S1095039700000455
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 44

Tracing transgene expression in cancer gene *therapy*: A requirement for rational progress in the field

This *review* summarizes the status of gene *therapy* in medicine and the role of molecular imaging in its development. In gene *therapy*, genetic material is introduced into cells in order to generate a specific biological effect. Natural (viruses) or artificial molecular constructs, named gene *therapy* vectors, are used to achieve efficient cell transduction. This new form of *therapy* can be used for treating a broad variety of conditions including hereditary diseases, infections,

degenerative disorders and cancer. Monitoring transgene expression using non-invasive imaging techniques is a necessary complement for the development of clinical gene *therapy*. Recent developments in magnetic resonance imaging afford the possibility of detecting gene transfer in vivo, but the most promising results have been obtained with positron emission tomography (PET). PET allows imaging gene *therapy* products by administration of a labeled substrate when the transgene codes for an enzyme or by administration of a labeled ligand when the transgene codes...

...or dopamine receptors) is used to detect the selective trapping of its radiolabeled ligand in the transduced cells. One of the approaches for the genetic *treatment* of cancer consists in transferring the "suicide genes" into tumor cells, the most common being the thymidine kinase (tk) of herpes viruses. Different nucleoside analogs...

...extremely encouraging. Reliable methods for the in vivo tracing of transgene expression in humans have to be developed in order for the field of gene *therapy* to mature. PET has emerged as a powerful tool to assist in achieving this goal. (c) 2001 Elsevier Science, Inc. All rights reserved.

DRUG DESCRIPTORS:

gene product--drug development--dv; gene product--drug *therapy*--dt; *DNA*
; *ligand*; enzyme--endogenous compound--ec; receptor--endogenous compound
--ec; somatostatin receptor--endogenous compound--ec; dopamine receptor
--endogenous compound--ec; thymidine kinase--drug *therapy*--dt; nucleoside
analog--drug *therapy*--dt; liposome

MEDICAL DESCRIPTORS:

*gene *therapy*; *cancer--drug *therapy*--dt
transgene; gene expression; imaging system; gene construct; virus vector;
DNA vector; genetic transduction; genetic disorder--drug *therapy*--dt;
infection--drug *therapy*--dt; degenerative disease--drug *therapy*--dt;
gene expression profiling; non invasive measurement; nuclear magnetic
resonance imaging; gene transfer; in vivo study; positron emission
tomography; genetic code; isotope labeling; suicide gene...

13/3,K/3 (Item 2 from file: 73)

DIALOG(R) File 73:EMBASE

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06429005 EMBASE No: 1996078493

**Noninfectious gene transfer and expression systems for cancer gene
*therapy***

Cooper M.J.

BioMedical Research Building 3 West, Case Western Reserve University,
School of Medicine, 10900 Euclid Ave, Cleveland, OH 44106-4937 United
States

Seminars in Oncology (SEMIN. ONCOL.) (United States) 1996, 23/1
(172-187)

CODEN: SOLGA ISSN: 0093-7754

DOCUMENT TYPE: Journal; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

**Noninfectious gene transfer and expression systems for cancer gene
*therapy***

Gene *therapy* provides a significant opportunity to devise novel strategies for the control or cure of cancer. Success of this modality will ultimately depend on the ability to express a therapeutic gene of interest at high levels, and specific gene delivery to targeted tumor cells will minimize toxicities. Although current gene *therapy* trials typically use viral-based, infectious vectors to express suitable target genes in human cancer cells, these vectors have significant limitations in their expression characteristics...

DRUG DESCRIPTORS:

calcium phosphate; cancer vaccine--drug development--dv; *dna*; *ligand*;

liposome; polylysine
 MEDICAL DESCRIPTORS:
 *cancer--*therapy*--th
 clinical article; episome; expression vector; gene targeting; gene
 therapy; gene transfer; genetic transfection; human; intradermal drug
 administration; intramuscular drug administration; intraperitoneal drug
 administration; intratumoral drug administration; intravenous drug
 administration; nonhuman; plasmid; priority journal; promoter region;
 review; subcutaneous drug administration

13/3,K/4 (Item 3 from file: 73)
 DIALOG(R)File 73:EMBASE
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05886591 EMBASE No: 1994304195
Somatic gene *therapy* for cystic fibrosis
 O'Neal W.K.; Beaudet A.L.
 Dept Molecular and Human Genetics, Baylor College of Medicine, One Baylor
 Plaza, T619,Houston, TX 77030 United States
 Human Molecular Genetics (HUM. MOL. GENET.) (United Kingdom) 1994,
 3/REVIEW (1497-1502)
 CODEN: HMGEE ISSN: 0964-6906
 DOCUMENT TYPE: Journal; Review
 LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

Somatic gene *therapy* for cystic fibrosis

There is considerable potential to ameliorate the pulmonary disease in
 cystic fibrosis (CF) using somatic gene *therapy*. Even low levels of
 expression of the gene in airways epithelium may be beneficial. Adenoviral
 vectors, DNA-liposome complexes, adeno-associated viral vectors, and *DNA*
 ligand complexes have been used effectively in vitro and have been tested
 in animals to varying extent. Adenoviral vectors and DNA- liposome
 complexes are being used...

MEDICAL DESCRIPTORS:
 *cystic fibrosis--*therapy*--th; *cystic fibrosis--congenital disorder--cn;
 *gene *therapy*
 adenovirus; clinical trial; electrophysiology; gene targeting; human; lung
 disease--*therapy*--th; nonhuman; nose mucosa; priority journal;
 respiratory epithelium; *review*; somatic cell genetics; virus vector
 ?ds

Set	Items	Description
S1	718	(POLYNUCLEOTIDE OR RNA OR DNA) (W) (LIGAND)
S2	3	S1 (S) (ANTIVIRUS OR ANTIVIRAL)
S3	2	RD (unique items)
S4	0	S1 AND (VIRUS (W) (CAPSID OR ENVELOPE))
S5	4	S1 AND (GB OR GH OR GL)
S6	2	RD (unique items)
S7	2	S1 AND (VIRAL (W) INFECTION)
S8	1	RD (unique items)
S9	10	S1 AND (ANTIVIRAL OR ANTIVIRUS)
S10	7	RD (unique items)
S11	74	S1 AND (TREATMENT OR THERAPY)
S12	6	S11 AND REVIEW
S13	4	RD (unique items)

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 \$0.84 4 Type(s) in Format 3
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 \$3.33 Estimated cost File155
 \$3.90 0.696 DialUnits File5
 \$10.50 6 Type(s) in Format 3
 \$10.50 6 Types

\$14.40 Estimated cost File5
\$13.18 1.464 DialUnits File73
\$15.00 6 Type(s) in Format 3
\$15.00 6 Types
\$28.18 Estimated cost File73
OneSearch, 3 files, 2.939 DialUnits FileOS
\$2.16 TELNET
\$48.07 Estimated cost this search
\$48.43 Estimated total session cost 3.031 DialUnits

Status: Signed Off. (10 minutes)

Set Name Query
side by side*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=AND*

L7 L6 and (virus adj (capsid or envelope))
L6 ((polynucleotide or RNA or DNA) adj ligand) and (antiviral or
antivirus)
L5 L4 and ((polynucleotide or RNA or DNA) adj ligand)
L4 L3 and (ligand)
L3 L2 same (polynucleotide or RNA or DNA)
L2 (antiviral) or (anti-viral) or (anti adj viral)
L1 Liu-fenyong.in.

Hit Count Set Name
result set

8 L7
92 L6
51 L5
838 L4
3816 L3
29801 L2
10 L1

END OF SEARCH HISTORY